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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/784,877	02/24/2004	Mitsuo Fukuda	9694D-000002/US	8672	
	2590 02/26/2007 CKEY & PIERCE, P.L.O	` 2.	EXAMINER		
P.O. BOX 8910			KOTINI, PAVITRA		
RESTON, VA 2	N, VA 20195 ART UNIT PAPER		PAPER NUMBER		
			3731		
•					
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MON	THS	02/26/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/784,877	FUKUDA ET AL.	FUKUDA ET AL.			
Office Action Summary	Examiner	Art Unit				
· ·	Pavitra Kotini	3731				
The MAILING DATE of this communication appeariod for Reply	pears on the cover sheet	with the correspondence ac	ddress			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	NATE OF THIS COMMUNIATE OF THIS	NICATION. a reply be timely filed ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).				
Status	·		•			
1) Responsive to communication(s) filed on 24 F	ebruary 2004.					
<u> </u>	s action is non-final.					
3) Since this application is in condition for allowa		atters, prosecution as to the	e merits is			
closed in accordance with the practice under the		• •				
Disposition of Claims			·			
4)⊠ Claim(s) <u>1-26</u> is/are pending in the application						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) 1-5.8-10.16.18-22 and 24-26 is/are re						
7) Claim(s) 6.7.11-15.17 and 23 is/are objected t						
<u> </u>						
,,	or crocker requirement.					
Application Papers		-				
9) The specification is objected to by the Examine						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the E	xaminer. Note the attach	ed Office Action or form P	TO-152.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea 	ts have been received. ts have been received in crity documents have bee	Application No	Stage			
* See the attached detailed Office action for a list	of the certified copies no	ot received.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/22/06, 5/16/05, 2/24/04	3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/22/06, 5/16/05, 2/24/04. 5) Notice of Informal Patent Application 6) Other:					
Patent and Trademark Office		'				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Specifically, claim 2 recites that the descending region area monotonically increases and the ascending region area monotonically decrease away from the point. This is opposite of what is set forth in claim 1 and in the specification

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bays et al. (US-4924865).

Bays discloses in one embodiment a first ascending region (18), a descending region (17), and a second ascending region (18) subsequently and integrally formed of biodegradable material (col.3, lines 8-10), extending from a point in a predetermined direction; wherein said first and second ascending regions have the largest cross

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section having substantially the same size and shape to each other (ascending region 18 is substantially the same along the entire structure).

Bays does not disclose the above embodiment to have a triangular cross section. However, the embodiment of figure 6 shows each of said regions having triangular cross sections taken along any planes perpendicular to the predetermined direction; said first and second ascending regions having the triangular cross sections of which area monotonically increases as being away from the point (fig. 7); and said descending region having the triangular cross sections of which area monotonically decreases as being away from the point (section 17 decrease in area away from the point and creates a waist). Therefore, it would have been obvious to a person of ordinary skill in the art to modify the frusto-concial shape of the first embodiment to have a triangular shape as taught in the embodiment of figures 6 and 7 (col.6, lines 51-63).

Regarding **claim 10 and 26**, a holding region (15) of biodegradable material (col.5, line 37) connected to said second ascending region (fig. 3).

Regarding **claim 16**, at least one groove (13) extending in the predetermined direction through at least one of said first and second ascending regions and descending region (fig. 3).

Claim 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bays et al. (US-4924865)

Bays discloses a first ascending region (18), a descending region (17), and a second ascending region (18) subsequently and integrally formed of biodegradable material (col.3, lines 8-10), extending from a point in a predetermined direction; wherein

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said first and second ascending regions have the largest cross section having substantially the same size and shape to each other (ascending region 18 is substantially the same along the entire structure), said first and second ascending regions having the cross sectional area of which monotonically increases as being away from the point (fig. 7); and said descending region having cross sectional area of which monotonically decreases as being away from the point (section 17 decrease in area away from the point and creates a waist).

Bays does not disclose s trapezoidal cross section taken along any plane perpendicular to the predetermined direction. The instant disclosure describes this parameter as merely providing a sharp penetration point and does not describe it as contributing any unexpected result, providing any advantage over other designs, or solves a stated problem to a tissue penetrating device.

At the time the invention was made, one of ordinary skill in the art would have expected Applicant's invention to perform equally well with a triangular or pyramidal cross-section because regardless of the shape, the penetration of a triangular or trapezoidal shaped lancet would achieve the same function or effect of repeatedly incising the peripheral cells and wedging away the intact tissue by the ascending regions and releasing the frictional forces with the peripheral cells by the descending regions. Also, as the specification states, both shapes would minimize pain to the patient by returning the peripheral cells to their original position. As such this parameter is deemed a matter of design choice (lacking in any criticality) and well within the skill of

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the ordinary artisan, obtained through routine experimentation in determining optimum results.

Claims 3-5, 8, 9, 20-22, 24, 25, rejected under 35 U.S.C. 103(a) as being unpatentable over Bays et al. Bays discloses the claimed invention except for values of the cross-section areas and the increasing rates (or slopes). It would have been obvious to one having ordinary skill in the art at the time the invention was made to include precise values of the slope rates of the ascending and descending areas and the cross-sectional areas of theses sections. It has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art.

Allowable Subject Matter

Claims 6, 7, 11-15, 17 and 23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pavitra Kotini whose telephone number is 571-272-0624. The examiner can normally be reached on M-F 8:30am to 6:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anhtuan Nguyen can be reached on 571-272-4963. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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PK

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2/12/07

ANHTUANT. NGUYEN
SUPERVISORY PATENT EXAMINER

2/19/07